

**BRAIN RESEARCH:  
DEVELOPMENTAL BRAIN RESEARCH**

**VOL. 108 NOS. 1,2**

**CONTENTS**

**15 June 1998**

*Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)*

*Guidelines for the submission of manuscripts*

v

*Interactive report*

(also accessible on the World Wide Web at: <http://www.elsevier.nl/locate/bres> or <http://www.elsevier.com/locate/bres>)

Developmental expression of CIC-2 in the rat nervous system

G.H. Clayton, K.J. Staley, C.L. Wilcox, G.C. Owens and R.L. Smith (USA)

307

*Research reports*

Development of trigeminal mesencephalic and motor nuclei in relation to masseter muscle innervation in mice

C.G. Widmer, J.A. Morris-Wiman and J.C. Calhoun (USA)

1

Sustained potassium currents in maturing CA1 hippocampal neurones

A.I. Santos, W.J. Wadman and P.F. Costa (Portugal, Netherlands)

13

Postnatal development of muscarinic autoreceptors modulating acetylcholine release in the septohippocampal cholinergic system. I. Axon terminal region: hippocampus

R. Goldbach, C. Allgaier, B. Heimrich and R. Jackisch (Germany)

23

Postnatal development of muscarinic autoreceptors modulating acetylcholine release in the septohippocampal cholinergic system. II. Cell body region: septum

U. Disko, A. Haaf, B. Heimrich and R. Jackisch (Germany)

31

Developmental neurotoxicity of chlorpyrifos: delayed targeting of DNA synthesis after repeated administration

K. Dam, F.J. Seidler and T.A. Slotkin (USA)

39

Morphology of M-cell axon arbors in striate cortex of monkeys reared with monocular aphakia

C.W.-H. Wu, S.L. Florence, M.H. Tigges and J.H. Kaas (USA)

47

Calcitonin gene-related peptide immunoreactivity in the rat efferent vestibular system during development

D. Demênes and C. Broca (France)

59

Metabolic activity is increased in discrete brain regions before the occurrence of spike-and-wave discharges in weanling rats with genetic absence epilepsy

A. Nehlig, M. Vergnes, S. Boyet and C. Marescaux (France)

69

Regulation of cyclin dependent kinase inhibitor proteins during neonatal cerebella development

G. Watanabe, P. Pena, G.E. Shambaugh III, G.K. Haines III and R.G. Pestell (USA)

77

Genesis of spontaneous rhythmic motor patterns in the lumbosacral spinal cord of neonate mouse

A. Bonnot, D. Morin and D. Viala (France)

89

Developmental regulation of the recovery process following glutamate-induced calcium rise in rodent primary neuronal cultures

E. Adamec, M. Didier and R.A. Nixon (USA)

101

Early olfactory-induced rhythmic limb activity in the newborn rat

J.-C. Fady, M. Jamon and F. Clarac (France)

111

Inhibition of sphingolipid synthesis, but not degradation, alters the rate of dendrite growth in cultured hippocampal neurons

A. Schwarz and A.H. Futerman (Israel)

125

Neurosteroid action at the GABA<sub>A</sub> receptor in fetal rat forebrain

C.K. Kellogg, V.G. Olson and G.L. Plegier (USA)

131

Effect of ethanol on neurotrophin-mediated cell survival and receptor expression in cultures of cortical neurons

G.K. Seabold, J. Luo and M.W. Miller (USA)

139

(contents continued on p. 321)



**ContentsDirect**, the *free* e-mail alerting service, delivers the table of contents for this journal directly to your PC, prior to publication. The quickest way to register for **ContentsDirect** is via the Internet at: <http://www.elsevier.nl/locate/ContentsDirect>. If you don't have access to the Internet you can register for this service by sending an e-mail message to [cdsubs@elsevier.co.uk](mailto:cdsubs@elsevier.co.uk) - specifying the title of the publication you wish to register for.



0165-3806(19980615)108:1/2;1-0

**BRAIN RESEARCH:  
DEVELOPMENTAL BRAIN RESEARCH**

**VOL. 108 NOS. 1,2**

**CONTENTS**

**15 June 1998**

*Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)*

*Guidelines for the submission of manuscripts*

v

*Interactive report*

(also accessible on the World Wide Web at: <http://www.elsevier.nl/locate/bres> or <http://www.elsevier.com/locate/bres>)

Developmental expression of CIC-2 in the rat nervous system

G.H. Clayton, K.J. Staley, C.L. Wilcox, G.C. Owens and R.L. Smith (USA)

307

*Research reports*

Development of trigeminal mesencephalic and motor nuclei in relation to masseter muscle innervation in mice

C.G. Widmer, J.A. Morris-Wiman and J.C. Calhoun (USA)

1

Sustained potassium currents in maturing CA1 hippocampal neurones

A.I. Santos, W.J. Wadman and P.F. Costa (Portugal, Netherlands)

13

Postnatal development of muscarinic autoreceptors modulating acetylcholine release in the septohippocampal cholinergic system. I. Axon terminal region: hippocampus

R. Goldbach, C. Allgaier, B. Heimrich and R. Jackisch (Germany)

23

Postnatal development of muscarinic autoreceptors modulating acetylcholine release in the septohippocampal cholinergic system. II. Cell body region: septum

U. Disko, A. Haaf, B. Heimrich and R. Jackisch (Germany)

31

Developmental neurotoxicity of chlorpyrifos: delayed targeting of DNA synthesis after repeated administration

K. Dam, F.J. Seidler and T.A. Slotkin (USA)

39

Morphology of M-cell axon arbors in striate cortex of monkeys reared with monocular aphakia

C.W.-H. Wu, S.L. Florence, M.H. Tigges and J.H. Kaas (USA)

47

Calcitonin gene-related peptide immunoreactivity in the rat efferent vestibular system during development

D. Demênes and C. Broca (France)

59

Metabolic activity is increased in discrete brain regions before the occurrence of spike-and-wave discharges in weanling rats with genetic absence epilepsy

A. Nehlig, M. Vergnes, S. Boyet and C. Marescaux (France)

69

Regulation of cyclin dependent kinase inhibitor proteins during neonatal cerebella development

G. Watanabe, P. Pena, G.E. Shambaugh III, G.K. Haines III and R.G. Pestell (USA)

77

Genesis of spontaneous rhythmic motor patterns in the lumbosacral spinal cord of neonate mouse

A. Bonnot, D. Morin and D. Viala (France)

89

Developmental regulation of the recovery process following glutamate-induced calcium rise in rodent primary neuronal cultures

E. Adamec, M. Didier and R.A. Nixon (USA)

101

Early olfactory-induced rhythmic limb activity in the newborn rat

J.-C. Fady, M. Jamon and F. Clarac (France)

111

Inhibition of sphingolipid synthesis, but not degradation, alters the rate of dendrite growth in cultured hippocampal neurons

A. Schwarz and A.H. Futerman (Israel)

125

Neurosteroid action at the GABA<sub>A</sub> receptor in fetal rat forebrain

C.K. Kellogg, V.G. Olson and G.L. Plegier (USA)

131

Effect of ethanol on neurotrophin-mediated cell survival and receptor expression in cultures of cortical neurons

G.K. Seabold, J. Luo and M.W. Miller (USA)

139

(contents continued on p. 321)



**ContentsDirect**, the *free* e-mail alerting service, delivers the table of contents for this journal directly to your PC, prior to publication. The quickest way to register for **ContentsDirect** is via the Internet at: <http://www.elsevier.nl/locate/ContentsDirect>. If you don't have access to the Internet you can register for this service by sending an e-mail message to [cdsubs@elsevier.co.uk](mailto:cdsubs@elsevier.co.uk) - specifying the title of the publication you wish to register for.



0165-3806(19980615)108:1/2;1-0

## (contents continued)

Regional distribution of nicotinic receptors during prenatal development of human brain and spinal cord E. Hellström-Lindahl, O. Gorbounova, Å. Seiger, M. Mousavi and A. Nordberg (Sweden)	147
Calbindin-D28k- and astroglial protein-immunoreactivities, and ultrastructural differentiation in the prenatal rat cerebral cortex and hippocampus are affected by maternal adrenalectomy J.L. Trejo, C. Rúa, I. Cuchillo and C. Machín (Spain)	161
Postnatal changes in the numerical density and total number of asymmetric and symmetric synapses in the hypoglossal nucleus of the rat J.R. O'Kusky (Canada)	179
Increased calcium-dependent K <sup>+</sup> channel activity contributes to the maturation of cellular firing patterns in developing cerebellar Purkinje neurons Y.L. Muller and A.J. Yool (USA)	193
Depolarization stimulates lamellipodia formation and axonal but not dendritic branching in cultured rat cerebral cortex neurons G.J.A. Ramakers, J. Winter, T.M. Hoogland, M.B. Lequin, P. Van Hulten, J. Van Pelt and C.W. Pool (Netherlands)	205
The embryogenesis of rod photoreceptors in the teleost fish retina, <i>Haplochromis burtoni</i> M. Hagedorn, A.F. Mack, B. Evans and R.D. Fernald (USA)	217
Process of repair in the neuroepithelium of developing rat brain during neurogenesis: chronological and quantitative observation of DNA-replicating cells K. Oyanagi, A. Kakita, M. Yamada, K. Kawasaki, S. Hayashi and F. Ikuta (Japan)	229
Postnatal development of multiple opioid receptors in the spinal cord and development of spinal morphine analgesia W. Rahman, M.R. Dashwood, M. Fitzgerald, A. Aynsley-Green and A.H. Dickenson (UK)	239
In vivo whole-cell recording from neurons of the superior colliculus in fetal rats Y. Sakata, T. Fujioka and S. Nakamura (Japan)	255
Neuronal and glial expression of heparin-binding EGF-like growth factor in central nervous system of prenatal and early postnatal rat T. Nakagawa, M. Sasahara, Y. Hayase, M. Haneda, H. Yasuda, R. Kikkawa, S. Higashiyama and F. Hazama (Japan)	263
Development of a transient increase in recurrent inhibition and paired-pulse facilitation in hippocampal CA1 region C. Papatheodoropoulos and G. Kostopoulos (Greece)	273
A quantitative study of the progress of myelination in the rat central nervous system, using the immunohistochemical method for proteolipid protein K. Hamano, T. Takeya, N. Iwasaki, J. Nakayama, T. Ohto and Y. Okada (Japan)	287
<i>Short communications</i>	
Bulbectomy of neonatal mice induces migration of basal cells from the olfactory epithelium Y. Suzuki, M. Takeda, N. Obara and N. Suzuki (Japan)	295
GABAergic modulation of axonal conduction in the developing rat retinotectal pathway C.H. Lim and S.M. Ho (Australia)	299
Electroconvulsive shock does not induce <i>c-fos</i> and <i>junB</i> , but <i>TIS1</i> and <i>TIS8/zif-268</i> , in neonatal rat hippocampus H.Y. Jung, U.G. Kang, Y.H. Joo, S.C. Cho, S.H. Jeon, J.-B. Park and Y.S. Kim (South Korea)	303
<i>Author Index</i>	319